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SL-FL080 SBI Device EN13823

Description of the instrument

It is suitable for the testing the fire resistance of building materials / products in single burning item (SBI).

Features:

- 1. The core part of the machine are imported components: such as carbon dioxide, oxygen analysis equipment.
- 2. Operating interface style and performance equivalent to the United Kingdom FTT, some performance is better.
- 3. Easy maintenance, fast, late parts replacement than FTT minimum less than 50% to 70%, there will be no maintenance problems.
- 4. with imported integrated control cabinet.

Specifications

- 1. Composition: this test equipment includes combustion laboratory, control room, 2 small carts, exhaust pipe, fixed frame, flue gas collection system, integrated measurement system device, data collection and analysis device, gas supply control device.
- 2. Combustion chamber: long (3.0 ± 0.2) m × width (3.0 ± 0.2) m × high (2.4 ± 0.1) should be made in Bricks.
- 3. With bricks and calcium silicate board A1 plate composed of standard combustion chamber, test furnace should be installed at local;
- 4. At the top of the room there is a collecting hood and a smoke pipe connecting the sampling piping. The combustion heat release and combustion products of the sample are discharged from the exhaust pipe during the test.
- 5. Combustion chamber on a wall set up an opening, easy to enter the small cart, under the trolley air naturally out of space; vertical test plate on both sides of the front surface of the two sides were opened on the observation window.
- 6. Ignition source, placed in the trolley on the vertical corner of the 31KW propane right angle sandbox burner (side length 250MM high 80MM).
- 7. The position of the cart is to place the opening of the cart on the back of the cart just to close the openings in the combustion chamber wall. To distribute the airflow evenly along the combustion chamber floor, a perforated plate (perforated) is arranged at the air inlet at the bottom of the trolley Diameter 8mm, open area accounted for 60% of the total area).
- 8. With adjustable governance fixture, loading and unloading samples is very convenient.
- 9. Sandbox burner: one on the floor of the trolley (main burner), the other fixed on the frame column, propane gas through the sandbox burner and produce 30.7 ± 2.0 kW heat output.

Oxygen measurement:



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Measuring range	0-25%
Signal output	4-20mA
Response time T90	≤2S;
Ambient temperature	0-45 ℃;
Relative humidity	<90% (non-condensing)
Linearity	<± 0.1% O2
Zero drift	0.05% O2 per week
Repeatability	<± 0.02% O2
Carbon dioxide(CO2) measurement	
Measuring range	0-10%
Repeatability	<± 1% internal structure of the control cabinet;
Zero drift	≤2% / week
Span drift	≤2% / week
Linearity deviation	<± 1%
Response time	T90≤2 seconds

Record data acquisition system can collect oxygen concentration, carbon monoxide concentration, temperature, smoke density, heat release rate, mass loss rate, etc., can be stored.

Test Standards

EN13823, GB/T 20284-2006



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